

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) An information processing system in which a memory spaces of a memory unit in a portable electronic device is can be allocated to be used employed by a plurality of business organizations in common, said system comprising:

a management sector for generating a file registry information and access key information based on file key information and issuer key information possessed by the management sector, said file registry information including memory space specifying information fox specifying it size of a memory space to be dedicated in said portable electronic device and said file key information, said file registry information being encrypted with the issuer key information, said file key information being assigned to each of the plurality of business organization; and creating issuer key information;

an access apparatus possessed by each of said plurality of business organizations for accessing said portable electronic device, said access apparatus including means for executing an authentication between each business organization and said portable electronic device by using said access key information received from the management sector, and means for transmitting the file registry information to said portable electronic device. said access apparatus containing file key information assigned to each business organization;

means for creating access key information based on said issuer key information and said file key information; and

means for executing authentication between said access apparatus and said portable electronic device by using said access key information.

Claim 2. (currently amended) An access apparatus for a portable electronic device, said access apparatus and said portable electronic device being part of an information processing system in which memory spaces of a memory unit in being used to access said portable electronic device can be allocated to be used by and applied to an information processing system

~~in which a memory unit in said portable electronic device is employed by a plurality of business organizations in common, said access apparatus comprising:~~

~~file key information assigned to each of said plurality of business organizations;~~

~~access key information created based on said file key information and issuer key information possessed by a predetermined management sector, said file key information assigned to each of said plurality of business organization; and~~

~~file registry information generated by said management sector, said file registry information including memory space specifying information for specifying a size of a memory space to be dedicated in said portable electronic device and said file key information, and said file registry information being encrypted with the issuer key information;~~

~~means for executing an authentication between each business organization and said portable electronic device by using said access key information, the authentication being required for enabling an access to said portable electronic device ; and~~

~~means for transmitting the file registry information to said portable electronic device.~~

~~means for executing processing of authentication between each business organization and said portable electronic device by using said access key information, the authentication being required for effecting an access to said portable electronic device authentication.~~

Claim 3. (canceled)

Claim 4. (canceled)

Claim 5. (currently amended) An access apparatus according to Claim 31, wherein ~~said transmitting means transmits further comprising means for transmitting issuer key change information to said portable electronic device for updating first issuer key information held in said portable electronic device, said issuer key change information being created by encrypting second issuer key information, which is to be newly recorded in said portable electronic device, with said first issuer key information.~~

Claim 6. (original) An access apparatus according to Claim 5, wherein said access apparatus acquires, together with said issuer key change information, and the corresponding access key information from said management sector.

Claim 7. (currently amended) A portable electronic device including a memory unit which is employed by a plurality of business organizations in common, said portable electronic device comprising:

a memory unit having memory spaces allocated to said plurality of business organizations, said memory unit storing file key information specific to each of said plurality of business organizations and first issuer key information possessed by a management sector;

means for processing information transmitted from an access apparatus with said file key information and said first issuer key information, said information comprising file registry information generated by the management sector, said file registry information including memory space specifying information for specifying a size of a memory space to be dedicated in said portable electronic device and said file key information, and being encrypted with the first issuer key information; and;

means for allowing the access apparatus to access the memory space corresponding to the file key information according to a result obtained by the processing means.

~~means for determining a result obtained by said processing means and, depending on a determined result, allowing said access apparatus to access the memory space corresponding to said file key information.~~

Claim 8. (original) A portable electronic device according to Claim 7, wherein said portable electronic device receives, from said access apparatus, file registry information that is created by encrypting memory space specifying information for specifying at least a size of the memory space to be secured in said portable electronic device and said file key information with second specific key information possessed by said management sector;

restores said memory space specifying information and said file key information from the received file registry information; and

allocates the memory space in accordance with said memory space specifying information while recording said file key information in association with the allocated memory space.

Claim 9. (original) A portable electronic device according to Claim 7, wherein said second key information is said first issuer key information, and said file registry information is created by adding said memory space specifying information and said file key information to encrypted information that is created by encrypting said memory space specifying information and said file key information with said first issuer key information.

Claim 10. (currently amended) A portable electronic device according to Claim 7, wherein, for updating said first issuer key information held in said portable electronic device, said portable electronic device receives encrypted issuer key change information from said access apparatus, said encrypted issuer key change information being created by encrypting second issuer key information, which is to be newly recorded in said portable electronic device, with said first issuer key information; restores said second issuer key information by ~~processing~~ decrypting the received issuer key change information with said first issuer key information; and updates said first issuer key information by said second issuer key information.

Claim 11. (original) A portable electronic device according to Claim 7, wherein said portable electronic device is in the form of a card.

Claim 12. (original) 12. A portable electronic device according to Claim 7, wherein said portable electronic device is a portable terminal.

Claim 13. (original) A portable electronic device according to Claim 12, wherein said portable terminal is a cellular phone.

Claim 14. (currently amended) A method of using a memory space allocated in a memory unit that is provided in a portable electronic device to be employed by a plurality of business organizations in common, said method comprising the steps of:

authenticating the portable electronic device by using a first access key information generated by file key information assigned to each of the plurality of business organizations and fist issuer key information generated by a management sector ;

executing authentication between said portable electronic device and the business organization by using file key information assigned to each of said plurality of business organization and first access key information created based on first issuer key information that is created by a management sector;

allocating a memory space to separate area in the memory by decrypting a file registry information to generate memory space specifying information for specifying to be dedicated in the memory space and the file key information ; and

accessing the allocated area corresponding to the file key information by using the first access key information.

determining based on a result of said authentication whether said portable electronic device and the business organization are targets between which data can be mutually communicated, and accessing a memory space allocated in said memory unit when the targets are communicable therebetween; and

updating said memory space after accessing.

Claim 15. (currently amended) A method of using a memory space according to Claim 14, further including a step for updating the first issuer key information by transmitting issuer key change information generated by encrypting second issuer key information with the first issuer key information comprising a step of transmitting issuer key change information to said portable electronic device and changing said first issuer key information.

Claim 16. (canceled)

Claim 17. (currently amended) A method of using a memory space according to Claim 15, further comprising a step of sending second access key information corresponding to the second issuer key information updated from the first issuer key information.. receiving second access key information corresponding to issuer key information after replacement.